

The Tech

VOLUME 92, NUMBER 8

FRIDAY, MARCH 3, 1972

MIT, CAMBRIDGE, MASSACHUSETTS

FIVE CENTS



NASA studies plan to orbit radioactives

The disposal of nuclear wastes in space will soon be economically competitive with current storage procedures, according to Murray G. Boobar of the Space Division of North American Rockwell, who spoke at Tuesday's Aeronautics and Astronautics seminar.

Boobar was not considering the immediate initiation of such a dumping program. His calculations of cost and feasibility were based on several assumptions which have not yet been realized but may become necessary within several years.

Waste buried

There are two types of "hot" materials to be handled. Low and intermediate level wastes and reactor resins are of little trouble. They include effluents, contaminated equipment, and fuel processing residues that must be stored only for a few years before they are safe to handle. However, high level wastes must be allowed to cool (Please turn to page 5)

Peter Bohmer, a former MIT graduate student in the Department of Economics and a member of the Rosa Luxemburg SDS won, and then lost, his fight for re-appointment to the faculty of San Diego State.

According to the *Los Angeles Times*, Bohmer had been accused of unprofessional conduct. An early decision not to reappoint him was reversed

San Diego fires MIT grad

after a fact-finding hearing cleared him of the charge. The accusation involved a "lack of candor" in his application for the job, and alleged "politicization" of his classes.

Then, in a surprise move Wednesday, Glenn Dumke, chancellor of the California State College System, released a seven-page letter to Bohmer which terminated his contract.

concentration there will leave them unbalanced intellectually, able to spout equations fluently but unable to discuss a good book. Then, even a strong interest in science does not necessarily mean that the student plans to make a career, academic or otherwise, out of it.

MIT has a definite reputation for scientific concentration and emphasis: one student, accepted here but attending Harvard, said that "although they [MIT students] have assured me that there is no difficulty in changing one's field of concentration at the Institute from one of a scientific nature to liberal arts, I can't help feeling that such a shift of interests would leave the student involved feeling a little alienated from the intense scientific community at MIT."

A small group of students stated their primary reason for going elsewhere was better offerings in their particular fields at the other school. Areas that were mentioned were medicine, optical astronomy, and

undergraduate teaching, but most did not mention their proposed field of concentration.

Location and size were also important reasons for quite a few people. Those mentioning location were split into two groups: those wanting rural campuses, and those acquainted with Boston weather (most of the latter group chose California schools). MIT's size turned off a number of applicants, the largest group of which went to Cal Tech. Another group of similar size wanted either a greater diversity in the student body or a slower-paced, lower-keyed school.

Consistently, for the past few years at least, half the accepted students who went elsewhere have gone to Ivy League schools (including Stanford). RPI, Rice, and state universities have also kept their percentages steady. [Cal Tech's has noticeably gone down, from 14% in 1969 to 9.6% in 1971.]

This is particularly serious since the total number of applicants has decreased sharply, from 4071 in '69 to 3287 in '71. True, this year's freshman class is larger than last year's, but that is primarily due to the significant increase in the number of women students — from 69 to 124. More women are applying, and due to coed living more of them can be accepted.

William Dix, Assistant Dean of Admissions, who made this survey, is now working on one to see why those who came to MIT did so. Questionnaires were mailed to freshmen today, similar to the ones used before, the response to which may reveal why people choose to come to MIT.

SIPB back on cut budget

By Bert Halstead

The Student Information Processing Board is again on its feet and operating on a reduced budget after a short period of rest during the winter vacation and IAP.

SIPB was created two and a half years ago out of the Student Museum Committee, which had been concerned with preserving an old IBM 7094 computer. The philosophy behind SIPB was to provide students and other members of the MIT community with the same kind of computer

services enjoyed by their opposite numbers at Dartmouth. There, any student can sit down at a terminal and use it whenever he needs to.

Under increasing funds through the Provost's Office, SIPB had been growing steadily for two years, but with the MIT administration trying to cut down on expenditures, it has begun to suffer along with everyone else. Its budget a year ago was about \$120,000. This year it is only \$60,000.

During the last term, SIPB had approximately 1800 users, about

half of these on their EIS timesharing system and the other half on various batch-processing services.

Because of its limited funding this year, and in order to take the outstanding computer time from inactive accounts and re-allocate it to active accounts, SIPB cancelled all accounts on January 1 and made a fresh start. About 300 users have now accumulated on all services combined.

SIPB has never been completely synonymous with "free computer time." Because both SIPB and the academic departments are funded by the Provost, it has never been allowed to fund thesis or required course work. There have always been other guidelines as well, which, due to tighter funding, are probably being enforced more strictly now.

The category of "unrestricted service," by which anyone could obtain modest amounts of computer time essentially for the asking, has had to be discontinued. All applications for computer time are now reviewed at a weekly meeting. In order to let people know what their guidelines have not changed, SIPB sent a letter to the MIT campus media explaining what they are:

"[SIPB] has established certain criteria for determining the fundability of certain types of computer usage. As a brief guide to help potential applicants determine the acceptability of their proposals, the following (Please turn to page 3)

Forum reviews MIT's dedication to women

By Sandy Yulke

At the most recent meeting of the Women's Forum, representatives from the offices of Admissions and Financial Aid were questioned about the lack of efforts on the part of MIT to urge women students to apply to the Institute.

The guest speakers were Professor Leon Trilling, Chairman of the Committee on Admissions; Professor Sanborn C. Brown, Associate Dean of the Graduate School; Jack H. Frailey, Director of Student Financial Aid; and Prof. Ronald B. Greeley, Director of Admissions. They began by giving some statistics about women students, and then spent time answering questions. There were a great many.

Trilling began by noting that there is no longer a separate admissions procedure for women. Up until a year ago, all of the applications from women were put in a separate "pool" from those of men and read by a separate group, consisting in part of Prof. Emily Wick, Prof. Mildred Dresselhaus, and Mr. M. Bryce Leggett, Associate Director of Admissions, who had special responsibility for the admission of women.

The readers then met together and admitted as many

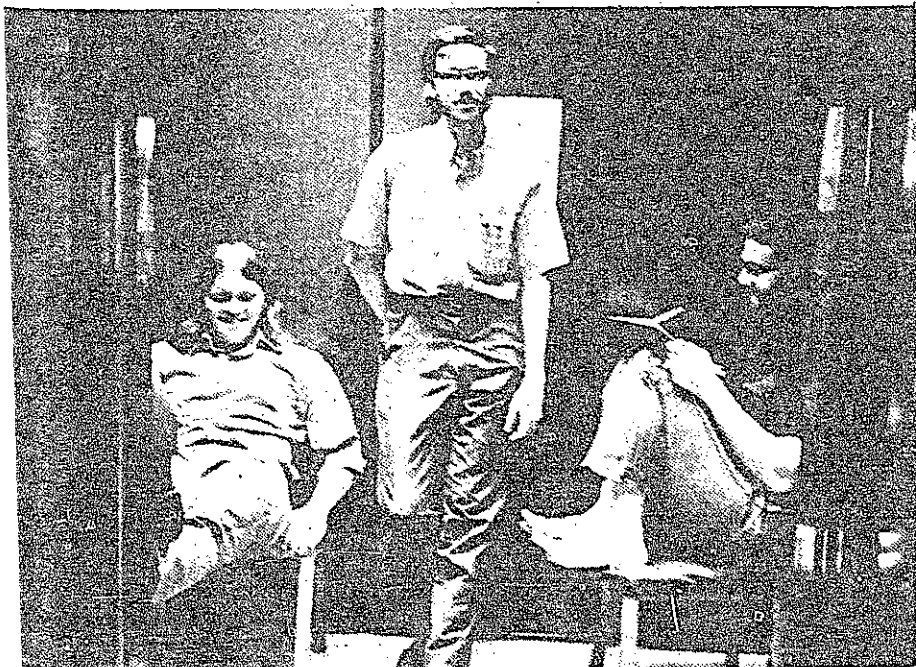
of the women that they judged as qualified as possible. The number was determined by the number of available rooms in McCormick Hall, as at that time all women students were required to live in McCormick or commute from their homes.

Though the women's applications are now no longer put in a "pool" by themselves, this "pool system" is now being used for all applications, as it has been judged to be a better system. Now that all the applications are judged "blind" with respect to sex, some surprising statistics have come out:

Proportionally, the number of women admitted is greater than that of the number of men. This is thought to be due in part to pre-selection on the part of women — any girl who applies to MIT has found out that there are women students at the Institute and has decided on a career in science or engineering. She is therefore part of a very small group.

There are presently 4050 undergraduates at MIT. Just under 400 of them are women. This is nearly 10%, much larger than in the recent years, when it was usually three or four percent. Until this past year, the

(Please turn to page 3)



itors of the Student Center have been complaining about the elevator service ever since the building was opened. Physical Plant officials told *The Tech* (December 7) that they were looking for a student group to take a survey of traffic patterns in order to improve service. For the past several days, members of APO have been working from 8 am to 11 pm, gathering data on elevator use. Action has been promised based on this information.

Alumni to hold small business seminars

By Jim Moody

A series of seminar-workshops, sponsored by the MIT Alumni Association and open to the MIT community, will be held this spring.

The seminar program is now 12 years old. Originally they involved only 200-300 participants per year, were organized by impressive committees, were very expensive, and were conducted by special guest lecturers, experts in their fields, who were paid very high fees.

In 1969, the format was drastically changed. Alumni, many of whom were looking for something to do to help their fellow graduates, took over complete control and execution of the program. The seminars were geared more toward younger alumni and students, became much cheaper, and were increased in number to the present 14 this year, with 20-30 speakers for each one.

Outgrowths of the program have included several articles in *Technology Review*, several special reports, and a book on the set-up and operation of small business, written by a 16-man voluntary alumni committee, and soon to be published by the MIT Press.

The spring portion of the program this year includes six different topics, with presentations in Boston, New York, Washington D.C., Los Angeles, and San Francisco. The first Boston program is "Managing a New Enterprise in Today's Economy," to be offered on four different

Saturdays, March 4 and 25, April 8 and 29. The course, consists of all four meetings.

The "Entrepreneurship Workshops" will cover such topics as finance, marketing and product development, production, accounting and control, attracting and holding staff, managerial style, and law, in the four one-day sessions. The workshop will also be offered on the same dates in Los Angeles and Washington D.C.

The second seminar is a repeat of a very popular topic, "How to Start and Operate a Small Business." It will be held in Boston on March 11 and 12, New York on March 4 and 5, and May 6 and 7 in San Francisco. The program will include panel discussions, lectures, and workshops, will give participants the opportunity to raise questions of their own, and will cover such topics as planning and goals, the team and organization, strategies for finance, marketing patterns, and

accounting and legal aspects of start-up situations.

The third seminar, "Technology and the Economy in the '70s," will be given in Boston on March 25 and 26, in New York on April 21 and 22, and in Los Angeles on April 22 and 23.

The program for Boston will include two panel discussions on "Manpower Needs" and overall economic forecasts, and the remainder of the time will be spent in chosen workshops covering specific fields: aerospace, housing, chemicals, computers, communications, electronics, energy, finance, health care, ocean engineering, and transportation.

The fourth seminar, "The Future Character of the Urban Fringe" will be given only in Boston, on April 29 and 30. Participants will "investigate factors which will shape the character of our future living with the aid of technical innovations now becoming

available," will "examine the pragmatic facts — economic trends, population statistics, legislation, and political realities," and finally will "probe the options open to us in the future."

Panos D. Spiliakos, Asst. Secretary of the Alumni Association, discussed the philosophy behind the seminar program. They provide a means by which alumni can help other alumni, in the continuing education program, sponsored by the Alumni Association, and requested by many former graduates.

Students can also gain much insight into what life in the real world is like. They can see what MIT alumni are actually doing in specific careers, as well as meet with people engaged in their specific seminar interest. As one

respondent to a post-seminar questionnaire put it, "I came because I knew it was given by alumni who had nothing to sell but their enthusiasm."

An important feature of this program is that all of the workshops, lectures, panels, and presentations are researched, prepared, and delivered voluntarily by MIT alumni. Fees are used only to defray overhead costs. MIT students can participate free of charge as long as space is available. Fees for alumni range from \$40-\$90, and for non-alumni from \$80-\$240. Spiliakos pointed out the difficulty, due to time and money, that he has had getting the word out to students, but he absolutely encourages any student to attend. Prospective registrants should contact him at E19-438 or x3768, x7200, or x3922 to reserve a place.

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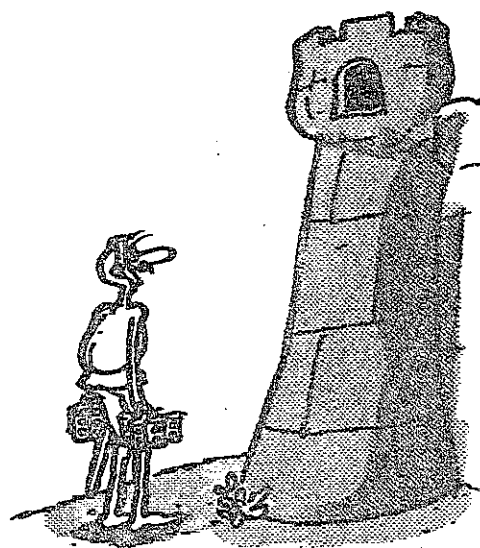
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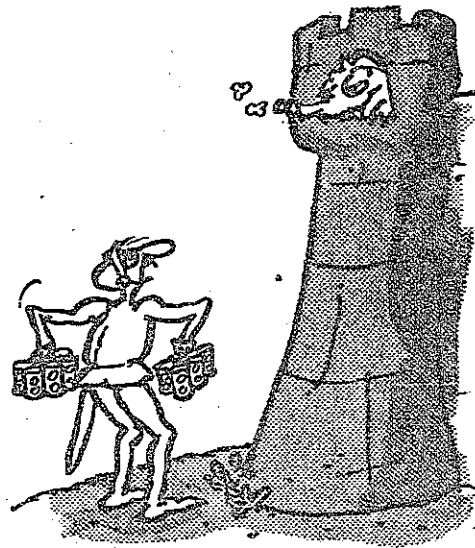
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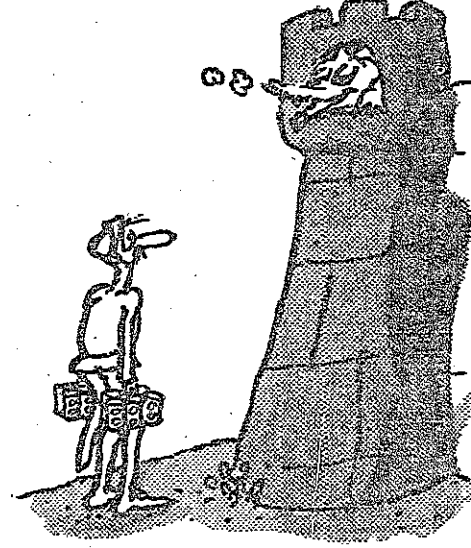
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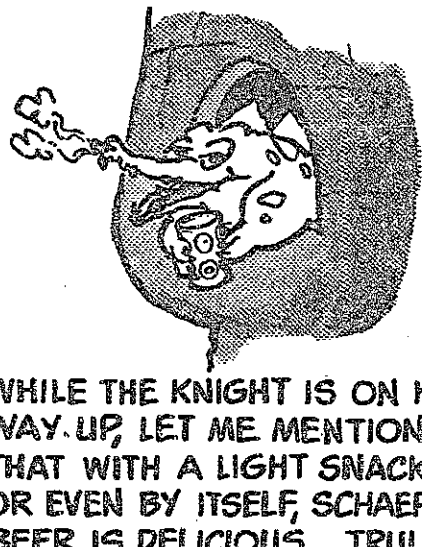
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WITH HER?



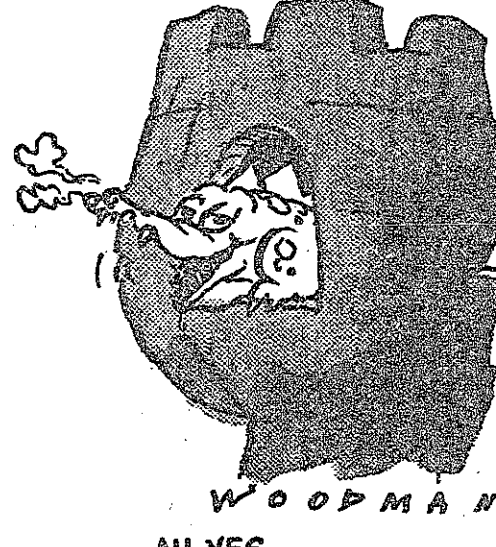
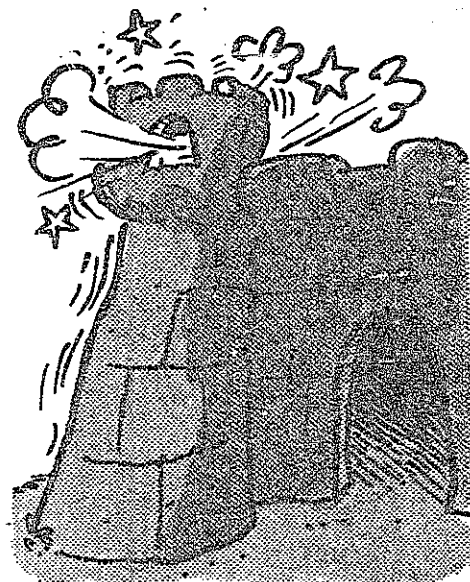
WELL, ONE MIGHT SAY SHE'S
OUT TO LUNCH RIGHT NOW...



YOU'VE EATEN MY BELOVED!



WHILE THE KNIGHT IS ON HIS
WAY UP, LET ME MENTION
THAT WITH A LIGHT SNACK
OR EVEN BY ITSELF, SCHAEFER
BEER IS DELICIOUS... TRULY
THE ONE BEER TO HAVE WHEN
YOU'RE HAVING MORE THAN ONE.
I SUGGEST YOU TRY IT.
NOW, IF YOU'LL EXCUSE ME...



WOODMAN
AH, YES.
THERE'S NOTHING LIKE A
KNIGHT WITH BEATRICE.

WHEN YOU'RE HAVING MORE THAN ONE



Schaefer Breweries, New York and Albany, N.Y., Baltimore, Md., Lehigh Valley, Pa.

List stricter rules for SIPB requests

(Continued from page 1)
comprises a list of some of the types of usage that the Board considers suitable:

"—Use of the computer for laboratory work or problem sets where modest amounts of computation are required. Note that this does not include problem sets or laboratory work in a subject which requires the use of the computer, or in a subject

which has funding already available for that purpose.

"—Personal education about computing and information processing which qualifies under the above criterion concerning course-related proposals.

"—Specific projects and independent research related to computing or information processing. This includes such

proposals as system development, large-scale data reduction, or trying out one's hand at a problem outside the scope of a course.

"—Use of the computer by groups or recognized MIT activities for suitable purposes. Note that Board acceptance of proposals of this type is highly discretionary, depending upon,

among other things, the budget available.

"Those proposals which the SIPB cannot honor include the following:

"—Theses. Any thesis work must be funded by the department in which the thesis is being done.

"—Computer usage required by or already funded by a subject.

"—Expansive projects requiring a disproportionate amount of funds.

"—Projects undertaken for profit or other monetary considerations.

"—Proposals submitted by persons outside of the MIT community (the MIT community includes undergraduates, graduate students, staff, faculty, and cross-registrants).

"If for some reason the SIPB cannot fund a proposal, the Board will attempt to suggest alternative funding possibilities. The SIPB reserves the right to consider each application individually, judging them in terms of acceptability under the above criteria and the ability of the Board to fund the project

involved. Members of the Board will be happy to discuss proposals and advise potential applicants concerning any problems or questions that they might have about the suitability of their projects."

In addition to funding computer time on IPC computers, SIPB provides many other services. It had compiled a fairly complete census of on-campus "small computers" and their accessibility. Here "small computer" means any computer not operated by IPC, including the PDP-10's at Tech Square.

SIPB will try to recommend what computer to use for any given task. They also do a little consulting on other problems users might have, as well as operating a small job referral service for computer jobs. In addition, they operate several terminals around campus, such as the one in the Student Center Library and the ones located in several dorms and fraternity houses.

SIPB has twenty to thirty very active members, but they are always looking for new members, "especially coeds!" They are open from 3 to 5 pm on weekdays in 39-200, or can be reached at x7788 or x7789.

Women examine prejudice

(Continued from page 1)
highest percentage of women at MIT was nine percent, and that was at the turn of the century. (The number of women at MIT decreased from nine to three percent in the early 1900's due to the fact that other colleges began to offer degrees in science and engineering to women.)

The admissions procedure for the graduate school is quite different, as the applications are handled by the individual departments. The number of women therefore varies a great deal among departments. Biology with 36, and Urban Studies, with 37, lead in the number of women students, whereas Ocean Engineering, Nuclear Engineering and the Center for Advanced Engineering Studies have only one each.

Overall, there are 3250 graduate students, of which 260, or eight percent, are women. The national percentage of female graduate students was, as of September 1970, 20%. MIT falls well below the national average; however, the national average of women graduate students in engineering is 1.7%, whereas at MIT, it is 3.2%.

The number of women graduate students at MIT has increased sharply in the last decade, as they represented only three percent in 1960. The difference has not come from the admission of a greater percentage of women but from the increase in the number of women applying to MIT as graduate students. In 1960, there were 50 women admitted, and in 1971, 92.

It seems to be assumed somehow that a larger percentage of women than men drop out of graduate school. This is not the case however, as 82% of the women who enter graduate school finish, compared with 85% of the men.

The following is the distribution of women graduate students among the schools at MIT:

Science	39%
Architecture	22%
Engineering	17%
Humanities	16%
Sloan School	6%

The financial aid aspect of admissions was also examined. This is particularly important in graduate school, where students depend heavily on fellowships and assistantships. As assistantships are given out by the individual departments, Dean Brown did not know the relative percentages; however, he did have the figures for fellowships:

	Women	Men
Science	58%	39%
Engineering	17%	22%
Architecture	32%	20%
Humanities	77%	67%
Sloan School	11%	17%

The questions were primarily from women wanting to know what is being done to urge more girls to apply to MIT, and to make high school guidance counselors and teachers aware of the fact that MIT is a coed school. Prof. Greeley replied that there had been efforts made to prepare a booklet about women at MIT in honor of the 100th

anniversary of coeds, but that for many reasons, including a lack of funds, the project fell through.

Greeley and Cynthia Bloomquist '70, Assistant Director of Admissions, replied that the Admissions Office is trying to encourage women to apply to MIT, but that there is no definite recruitment program, like that for minority students. When he was asked why there were not more pictures in the catalogue of women students in lab and classroom situations, rather than simply sitting around on the grass as if they were students' girlfriends, Greeley replied jokingly, "We wouldn't want any girls in our catalogue who couldn't be someone's girlfriend."

Overall, all the speakers expressed optimism regarding the growth of the number of women at MIT, and said that they would do nothing to prevent its increase.

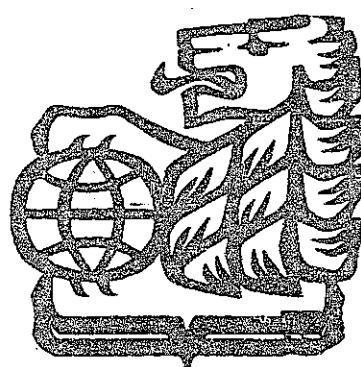
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The Significance of Science

Professor Victor F. Weisskopf

Institute Professor

Head of Physics Department, MIT

Moderator:

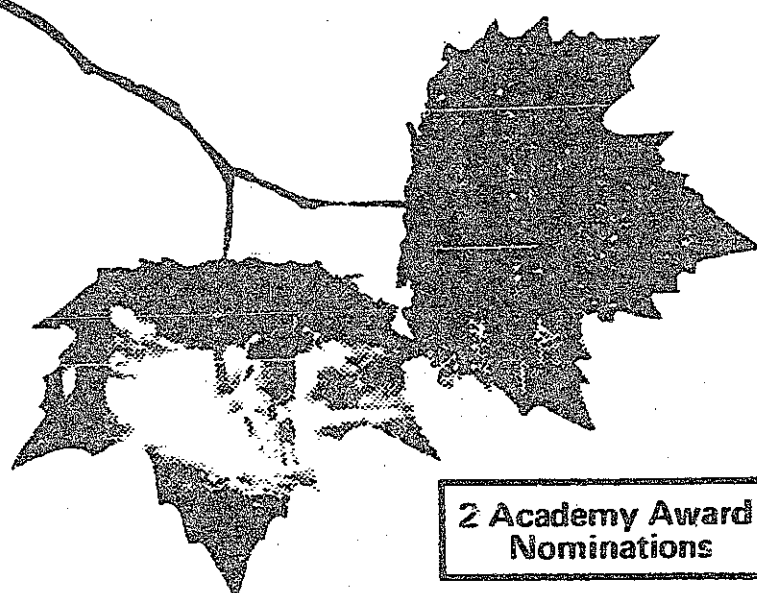
Louis Smullen,
Head of EE Department, MIT

Respondent:

John R. Silber
President, Boston University

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film of the year.

—Rollis Alpert, Saturday Review



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The Tech

Since 1881

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NOTES

* Beginning Tuesday, Notes will appear on page two.

* The MIT Musical Theatre Guild announces that its scheduled production of *A Funny Thing Happened On The Way to the Forum* has been cancelled because another Cambridge group was accidentally permitted to produce the same show on the same dates. The Guild would also like to announce that they have been permitted to produce the first post-tryout performances of the smash hit musical *Company*, winner of the Tony and Drama Critics' Circle Awards. Auditions for the George Furth-Stephen Sondheim musical will be held next week.

* Application may be made to the Activities Development Board to obtain funds for capital expenditures and for minor space renovation. Recognized MIT community activities are eligible. Application forms may be obtained in room 7-101. Applications must be submitted by Thursday, March 9.

* All freshmen and sophomores interested in studying abroad during their junior year should explore the idea promptly. Long-term planning is important. Contact Dean Hazen, foreign study advisor, room 10-103, x5243.

* Dr. Marion Mann of Howard University Medical School will meet with premedical students on Tuesday, March 7 at noon in 16-139.

* Foreign students in the MIT community are invited to apply for an experimental course in English for Foreign Students being offered at MIT. There will be two meetings weekly and the first meeting will be Tuesday, March 7, at 7 pm in the International Student Lounge 50-210. Application forms may be obtained and filed at the Foreign Student Office, 3-111, or completed the first meeting of the course.

Pass/Fail: plausible options

By Lee Giguere

Two and a half weeks ago, *The Tech* aired the issue of the effect of hidden grades on freshman pass/fail; the faculty, however, failed to reach the question before the end of their meeting — discussion of Pass/Fail was deferred to this month's meeting. In another two weeks, pass/fail will again come up before the faculty — what are some of the alternatives open to them?

While neither the Committee on Educational Policy (CEP) nor the Committee on Evaluation of Freshman Performance (CEFP) are likely to recommend it, but the faculty could choose to avoid the issue by eliminating pass/fail altogether. This is unlikely.

Assuming that freshman pass/fail will be continued, and it is very likely that it will, what are the most plausible options for dealing with the medical schools?

The faculty could choose to continue pass/fail while at the same time setting up a mechanism for keeping "hidden grades" in certain core subjects in chemistry and biology, and perhaps also in physics and mathematics. (This was one of the options enumerated by Professor of Economics and Political Science Everett Hagen, chairman of the CEFP, in his discussion of the issue in *The Tech*, February 15.) "Instructors or departmental offices," he explained, "might keep either grades or the basis for assigning grades or evaluations that are close equivalents. . . ." This information, however, would only be available for

students to send to medical schools; no other use, Hagen proposed, should be made of it.

Such a measure would be tantamount to a return to grades; any freshman who was even considering applying to a medical school would be robbed of the freedom pass/fail is meant to offer. The system, it seems, would be so diluted as to be meaningless. Sentiment outside of these core courses (and especially in the Humanities Department, where there is feeling that students will be very poorly motivated to do course work if they feel that their humanities subjects are the only ones in which they won't be graded) would seem to run against this option.

A slight variation on this option would be to leave it up to students to obtain a grade or evaluation from their instructors on an individual basis. The only advantage to this is that it eliminates the general collection of "hidden grades" by an instructor or department and limits their use only to those students who specifically request them. It does little, however, to preserve the integrity of pass/fail.

As part of its proposals, the CEFP stated: "It is the responsibility of each instructor to provide each freshman student with meaningful evaluation of his or her work. . . ." Embedded in this, it seems, is another alternate solution to the problem of medical school admission requirements. It has been suggested that "meaningful evaluations" might be an acceptable substitute for grades in

medical school applications.

Clearly, one of the goals of pass/fail has been to improve rather than eliminate teacher-student evaluations; if the present evaluation forms, distributed to freshmen twice each term, were carefully utilized they might form the basis of an evaluation system that would be acceptable to medical school admission committees, and compatible with the spirit of pass/fail. (The question of the usefulness is double-edged: not only must students and faculty put more into the evaluations, but the medical schools must have to spend more time considering such applications.)

Finally, MIT could simply refuse to give any sort of grades at all in a freshman subject. Pass/fail would be kept intact, and the goals of MIT's educational program would not be broken to meet the demands of the medical schools. In conjunction with this, MIT could advise incoming freshmen that a who think they might apply to a medical school should postpone chemistry and biology subjects until after their freshman year. (In most cases, this would not interfere with a student's program. According to Hagen, this was the solution that most members of the CEFP favored.)

At this point, several faculty committees are considering the issue and the Preprofessional Advising Committee is collecting data on medical school admission requirements. The final decision among the available options will certainly have to wait until more information about what the medical schools want is available. However, it is possible to discuss some of the values against which these alternatives will be measured.

There appears to be some sentiment both among CEFP members and the faculty and student body in general (see the letter from Marvin Sirbu G and Lar Storch '71 in *The Tech*, February 25) to take a "hard stand" and refuse to "give in" to the medical schools. As Sirbu and Storch put it: "By what right does Johns Hopkins ask us to subvert our education system by demanding grades?"

While this somewhat philosophical consideration is worth considering, what seems to be a much more important question, and one with a more personal impact, is "Which alternative will produce the greatest good?" In other words, should MIT decide to return to grades, the freshman year or to allow hidden grades, some freshmen might feel harmed. The question is whether this would be more or less than the injury that would be done to possible medical school applicants if the absolute integrity of a freshman pass/fail is maintained. Should MIT decide to maintain pass/fail and refuse grades in freshman subjects, some students might be barred from attending medical schools. There is certainly serious doubt whether MIT has the right to deny this possibility to its students. (Of course this objection might be meaningless until more information is available from the medical schools, it will be impossible to decide.) Opposed to this, however, the question of whether the entire freshman population, which is believed to benefit from pass/fail, should be sacrificed for these few.

One thing is certain, however: whatever is decided, the rules of the game should be made explicit. Over the last four years, many freshmen have been unaware of the possibility that grades could be obtained for any of the subjects. To the extent that it has failed to make them aware of the rules of the game in the past, MIT has lied to students. In the future, care should be taken to explain to all incoming freshmen the rules of pass/fail, whatever they may finally be.

by Brent Parker and Johnny Hart

Letters to The Tech

To the editor:

In the face of another good, but simplistic, review of an excellent, but unhistorical film (namely *Cabaret* and its review in the Feb. 29th *Tech*), I must respond. Two points of criticism:

1. It seems to be the tendency of Americans, especially intellectuals, to put down people of another time or another place. Our one-sided, myopic view of Southerners as stupid or violent or racist is just one example. More to the point, the view of Germany of the '30's as a place of mere decadence and refusal to cope with the deteriorating political condition is that taken by the film, by the reviewer (P.E. Schindler, Jr.) and by most other *Cabaret* reviews.

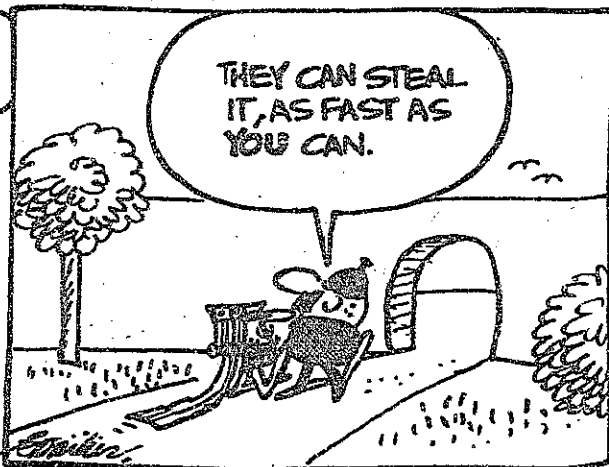
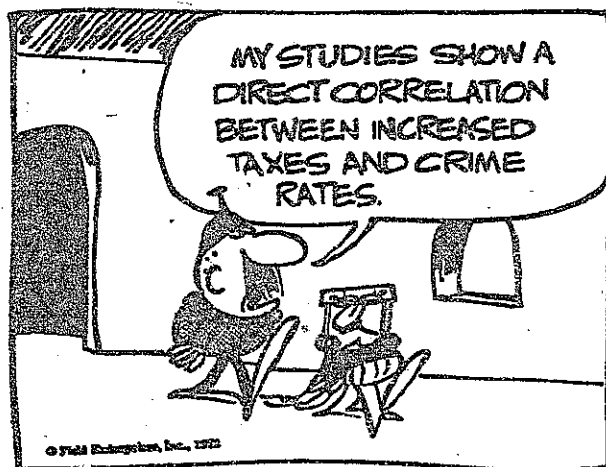
It is simply untrue to characterize most Germans then as stupid or escapist or psychopathic or their cabarets as filled only by the old, fat, unsophisticated and rich. We'd like to think that. But the people going to cabarets then were much the same types that are going to movies today: and many of these people are really confused by the political events surrounding them and by the moral consequences of these events.

This ambiguity is not appreciated by the film *Cabaret*. However, its sources — the Isherwood *Berlin Stories* and, yes, even the Broadway musical — do delve into the feelings of the people of that time, their confusion, and their natural desire to escape Nazi carnage (even though they realized that this was ultimately impossible).

I hope that future historians and films will be more appreciative of the moral dilemma that Americans must face today, as we bloodily butcher just as many as the Nazis, than we are towards the Berliners of the '30's.

2. The reviewer claims that Sally Bowles loved the theatre more than her lover Brian and therefore would not marry him. I think a more realistic (less romanticized) interpretation of this very dramatic moment in the film is that Sally finally admits to herself that she had very

THE WIZARD OF ID



The Wizard of Id appears daily and Sunday in The Boston Herald Traveler.

Nuclear waste may soon have to be spaced

(Continued from page 1)

for at least ten years, while the decay of radioactive isotopes of cesium and strontium takes some 600 years to reach acceptable intensities.

Boobar noted that neither of the two present storage methods is popular with those living in neighboring areas. Generally, the "hot" material is liquified in nitric acid and processed to increase the concentration of dangerous substances and reduce weight and volume. Some is left liquid and stored in underground tanks. Unfortunately, it has recently been found that some of these tanks are leaking. Their regular replacement adds greatly to the cost and the AEC has decided the system is too dangerous. The other procedure is to solidify the radioactive wastes, mix them with glass or similar bulk material, and store the blocks in mines. The favorite location is the Lyons, Kansas, salt mine.

More nuclear power

However, Boobar pointed out that it is predicted that by the year 2000, 75% of our energy will be generated by nuclear facilities. This would mean that the present 9000 megawatt installed capacity would increase to 735,000 megawatts.

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Assuming a 33% operating efficiency, between three and eight grams of waste per megawatt-day would have to be handled, the exact amount depending on concentration. That would mean that between five and 30 million pounds yearly would have to be disposed of by the turn of the century.

Boobar's consideration of space disposal feasibility was based on the development of a full-scale shuttle program and a supporting 10% increase in the cost of electricity. He then analyzed the key interdependent points of safety, economy, traffic, and payload packaging.

"Only one failure"

In the area of safety, Boobar stressed that, "We can afford only one failure." The radioactive levels incurred by more than one aborted mission would be highly dangerous. The processing and transport features have already been developed for present dumping, but pad, launch, and orbital operations

must be made effectively 100% perfect. The present one-per-thousand failure rate would probably not be acceptable when the volume of traffic is considered.

The wastes must either be thrown free of the earth's gravity or put into high-altitude, long-lived (1000 years) orbits. The latter is less costly: \$1500 per pound using a Centaur third stage for a 10,000 pound payload compared to \$1000 a pound for a maximum of 30,000 pounds using a trans-stage or Apollo service module. However, consideration of the rise of temperature at the surface of the waste necessitates its packaging into a long, thin cylinder that could not accommodate the maximum payload mass within available

space. Boobar noted that active cooling would probably be necessary before dumping can become practical, and still an additional 30% increase of electric cost might be required to fund the disposal of the maximum predicted volume of 30 million pounds.

Even allowing the full payload of a high-orbit mission, 500 to 3000 flights a year will be necessary by 2000. This is why a fail-safe system that is perfect is so vital. The traffic problem of ten flights a day would be enormous, especially as low-energy due-east orbits will be used consistently.

Sacrifice the crew

Boobar then considered the merits of manned versus unmanned flights. A manned shot would require one pound of

shielding mass for every pound of waste, at best. However, if the presence of a pilot significantly increases reliability, manned dumping would be likely. In such a case, in an emergency situation, the safety of the crew would not be penultimate: the lives of several against many on the ground. The payload would be considered first.

Boobar concluded by noting that no procedure looks very exciting at this time. However, we cannot continue to bury such dangerous material in our own backyards. As the use of nuclear plants in the US (Boobar's calculations do not include the rest of the world in any way) increases rapidly, the wastes must be put somewhere safe, and space may be the only answer.

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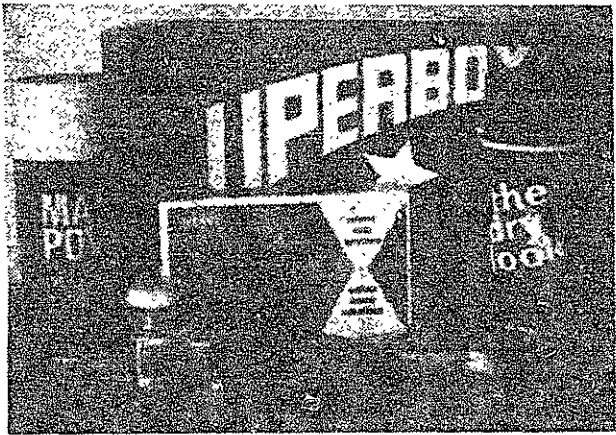
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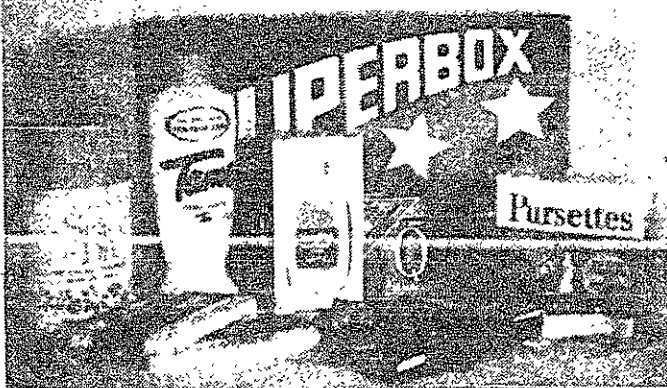


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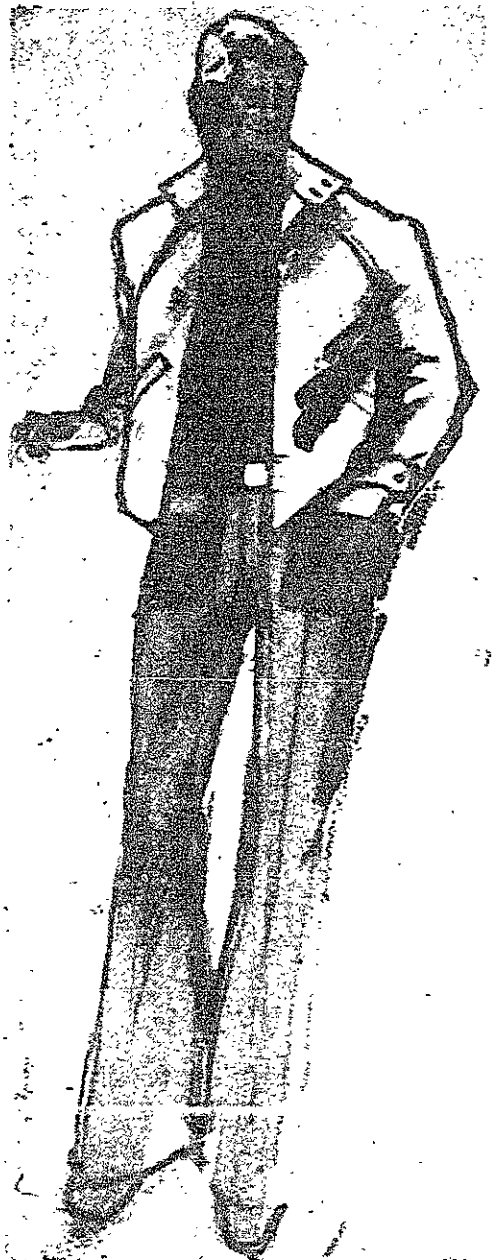
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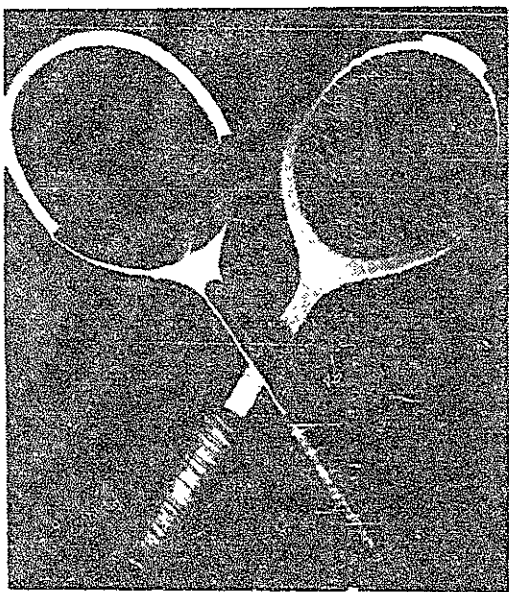
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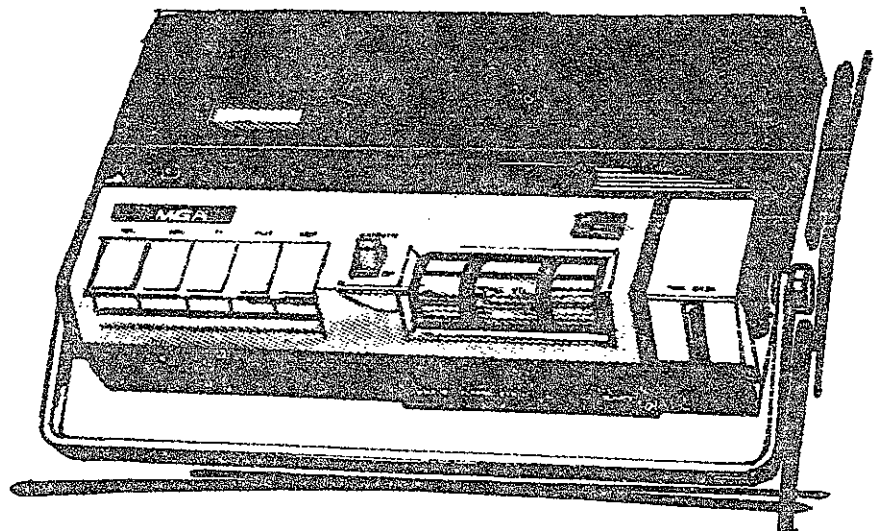


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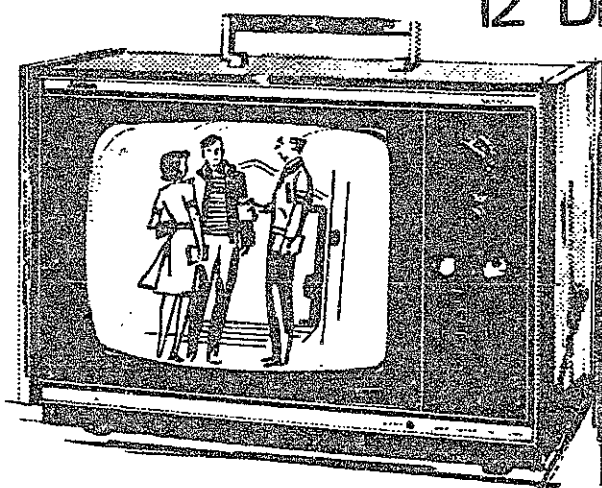


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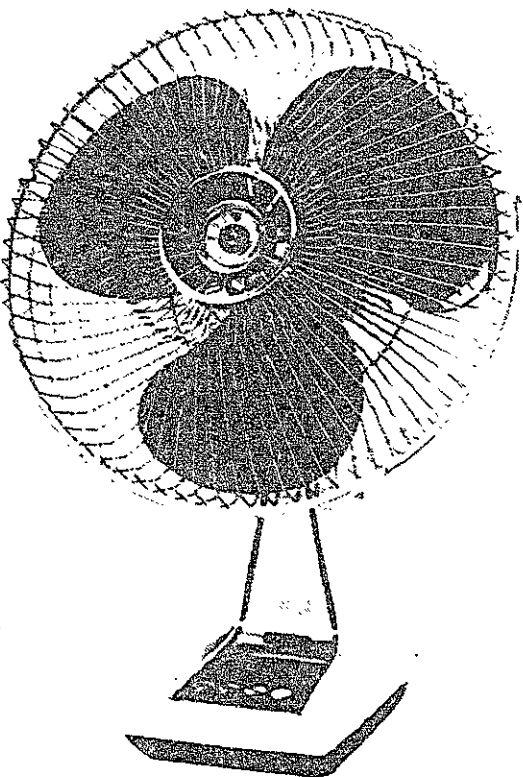
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Pub features relaxation

By Storm Kaufman

The Muddy Charles Pub, which serves inexpensive beer and wine to members of the MIT community over 21, is open to all and provides a pleasant atmosphere in which to eat lunch or dinner.

Organized at the beginning of the 1969 school year, the Muddy Charles, in the words of manager Sam Stroud, "... seems to have grown from a common desire for a place to relax, have a beer, meet new people, listen to music..." It is subsidized by the Graduate Student Council and is officially a non-profit organization, thus allowing it to maintain its prices at significantly less than local restaurants and bars. The Pub is entirely a graduate student operation, from the eight paid grad bartenders to those who keep the books and sponsor special activities.

Complete with wall-to-wall carpeting, drapes, comfortable chairs, music, and a dart board, the Muddy Charles is located on the first floor of Walker, in the southeast corner. Students can bring their meals from the Walker cafeteria and eat in the Pub by just going through the doors at the Memorial Drive end.

All students, undergrads and grads alike, are welcomed at the Muddy Charles which is open Monday through Friday 11 am

to 2 pm and 4:30 pm until everyone leaves.

The beer is Budweiser at a quarter per 10 oz. cup or \$2.50 for a gallon pitcher. The Pub also stocks various Almaden wines at 40 - 50 cents for seven oz. and Boone's Farm for a quarter for the same amount. Soft drinks, nuts, potato chips, and other salty snacks are also sold.

Bartender Paul Engel stressed that the Muddy Charles can handle parties, degree celebrations and such. Given a little advance notice, they can supply almost any quantity of Bud.

Recently, the Pub has been doing fairly well. Lunch and Thursday and Friday nights are

On Deck

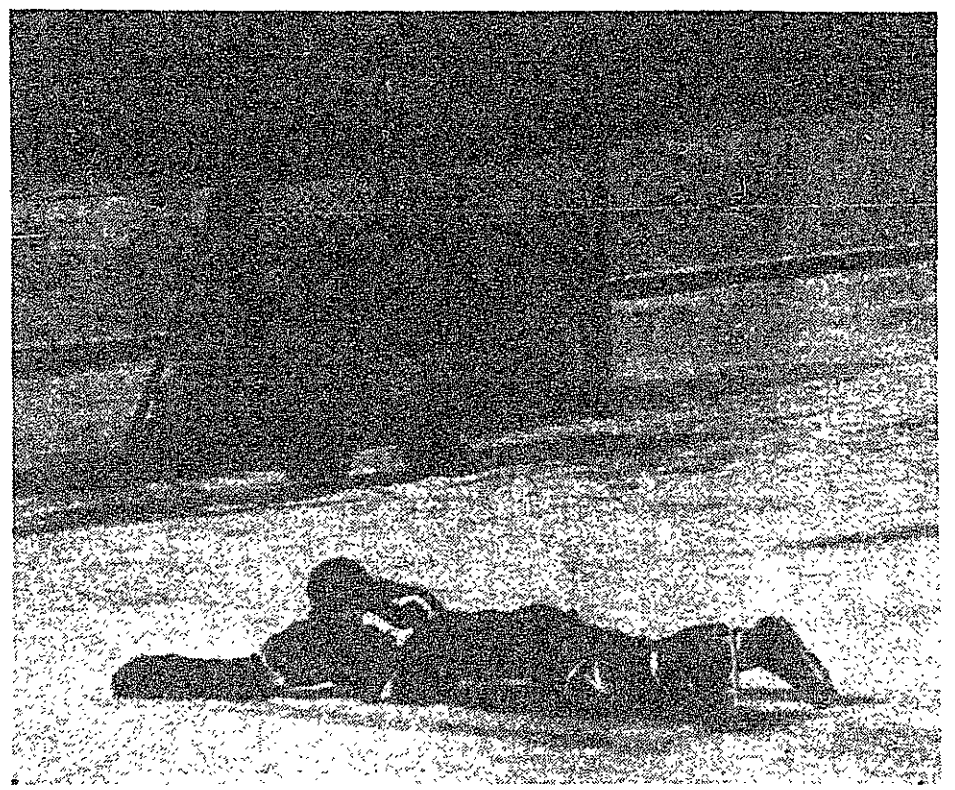
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tournament, away
Fencing (V) - New England at
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Indoor track (V) - ICAAAA at
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usually crowded while other times vary. A large number of faculty also visit, and Secretary of the Graduate Student Council Laura Hawkins noted that the Pub is very popular with those in Physical Plant.

However, business is not as good as it could be. To increase interest, special events are being planned. On Registration Day a pub party was held, complete with barmaids. Since then, the presence of barmaids has been erratic, but any girls who admit to drinking age and would like to try their hand at the volunteer job are urged to contact Judy Cornfeld of the Graduate Student Council at 354-7717. Other events are being arranged for the future, including Monday Ladies Nights, dart tournaments, and total consumption contests.

If you're over 21 and thirsty or underage but just don't like the hassling atmosphere of Walker, try dropping by the Muddy Charles sometime soon.



Defenseman Bob Hunter '73 dove headlong on the ice in a desperate attempt to block a shot on goal in the third period of the MIT-Connecticut game played last Monday on Tech ice. The shot was good, slipping under the glove of goalie Mike Schulman '73. MIT's defense was good for two periods in the game, but Connecticut scored five times in the final frame to defeat the Engineers 9-3. It was the last game of the season for the home team, which finished the year with a dismal 2-15 record.

Photo by Brad Billetteaux

Tech takes big winks tilt

By Peter Rubinstein

The MIT tiddlywinks team journeyed to Cornell for the continental championships on February 19-20, and came back an overwhelming victor on all fronts. The 'A' team won the A division competition by a wide margin. The 'B' and 'C' teams finished 1 and 2 in the B division. MIT also had the top pair in each division.

Tiddlywinks teams are made up of three pairs. A pair takes two different colored sets of six winks: Red-Blue pair plays against the Yellow-Green pair. Contrary to popular belief, the main object of the game is not to put winks in the pot as fast as possible. At the beginning of the game, the object is to cover your opponents' winks. This is called squopping and goes on for a time limit of 25 minutes. After time expires, each player gets five turns in which the winkers start to pot. Each potted wink counts for three points; each unsquopped wink is one point.

First place finisher gets 4 tournament points; second gets 2; third 3; and fourth none. If one player pots all his winks, everyone must shoot for the pot. In this case one point is transferred from the losing team to the winning team, making a 7-0 game possible. If one were to attempt to pot out early in the game, the likelihood is that his remaining winks would be squopped, leaving him helpless.

At the continentals, the top pair from MIT's 'A' team, Schiller and Christ, took the

pair's honors in the 'A' division, while Callon and Hirsh easily walked away with the pair's honors in the 'B' division. The issue was not in doubt for long as MIT 'A' broke 40 points (of a possible 63), against all but one opponent. The 'B' team was just as devastating, finishing far ahead of the second finisher, MIT 'C'. The 'C' team was closely followed by Toronto, but clinched second place by demolishing Hyth 'B', an independent team, in their last matchup.

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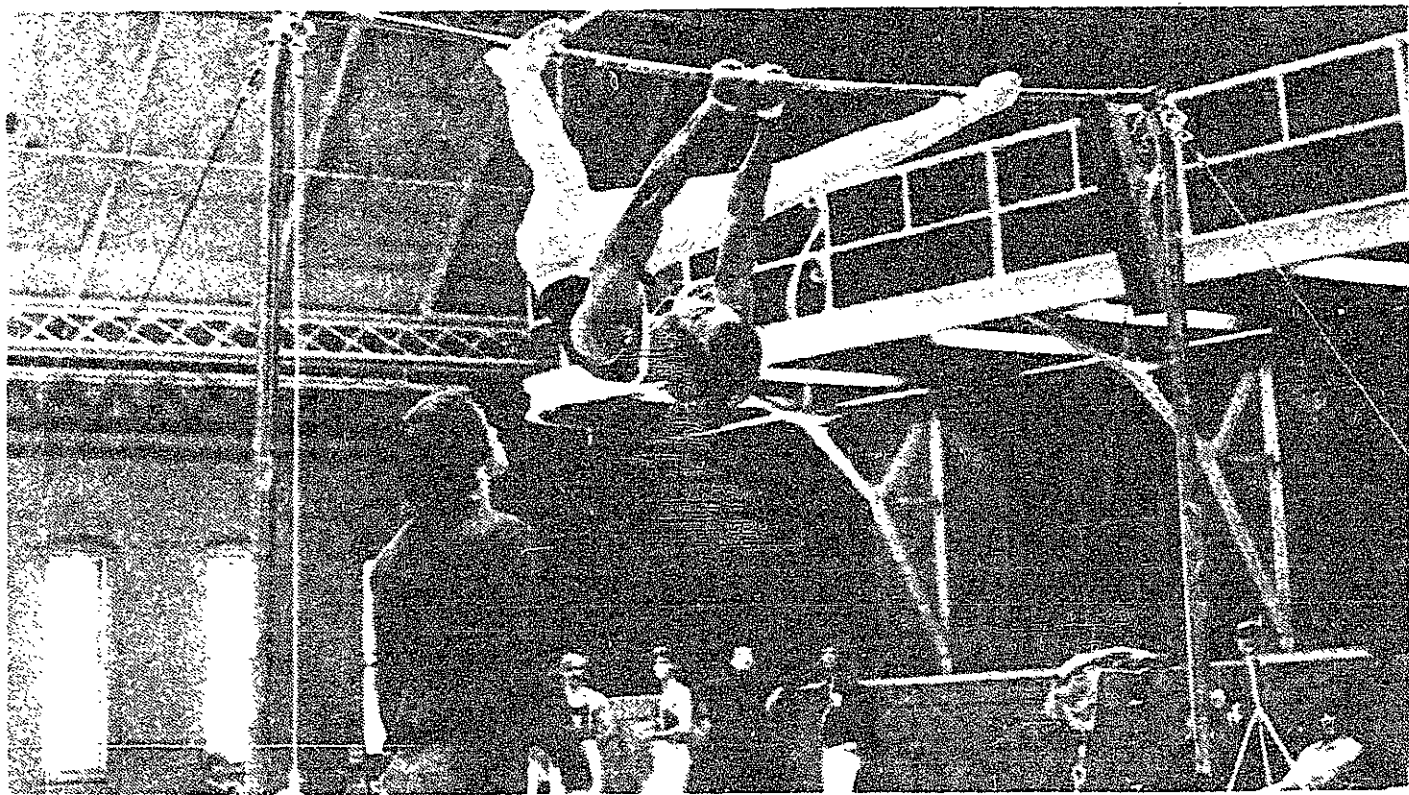
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Donn Wahl '72 on horizontal bar.

Photo by Dave Tenenbaum

Gym championships here

By Paul J. Bayer

Tomorrow the biggest athletic event of the year at MIT will take place, the New England College Gymnastics Championships. One hundred twenty-seven gymnasts from thirteen schools will compete for individual and team awards. Preliminary competition runs from 11 am to 4:30 pm, with team and all around awards at 7 pm and final competition at 7:30 pm. It will take place in the Armory, and programs and refreshments will be available. Admission is one dollar.

The meet will consist of the six individual gymnastic events, the all around, and team competition in two divisions. Division 1 will include Springfield College, the University of Massachusetts, and Southern Connecticut State College. Division 2 will include Boston State College, MIT, Yale, Lowell Tech, Dartmouth, New Hampshire, Bridgeport, Plymouth State, Maine, and Harvard. (The order used above was not random. It was a prediction of the finishing order.) The two divisions are entirely separate as far as competing, but they will both be working on the same events at about the same time.

Because of the large number of competitors in the prelims, two events will be run simultaneously. Floor Exercise (that's where they run around on a mat) and pommel horse (they swing their legs while holding onto a couple of handles) come first. They are

followed by rings (with all those super strong dudes) and vaulting horse (they jump over something which bears no resemblance to a horse) together, and parallel bars (handstands and stuff) and horizontal bar (the dangerous and exciting event).

The team competition will be decided during the prelims. This involves summing up the top three scores for each team on each event. Also, the all around titles will be decided by taking an individual's total score on all six events in the prelims. Trophies will be awarded in each division for the top three games and top five all around gymnasts.

The other function of the prelims is to provide the top five gymnasts in each division on each event for the finals. At night they will throw a second routine on the event, and the combined score from the prelims and finals will determine the final placings. The top three will get trophies.

The finals are the most exciting and enjoyable part of the meet to watch. There is only one gymnast performing at a time and the quality is much better. The Division 1 finalists will provide the best gymnastics, but there are some notable Division 2 gymnasts who do as well or better. All the Division 2 champions of last year will be returning except last year's MIT captain Ken Gerber on parallel bars. Returning Division 1 champs include Dave Genest of UMass on parallel bars and the number one standout of last

year's meet, one of the best gymnasts in the country, John Crosby. Crosby won the all around, floor exercise, and vaulting in last year's meet, won 8 medals at the Pan Am games, and is a cinch member of the US Olympic Team. (Well, his coach at SCSC is the Olympic Coach.)

MIT's prospects are bright. The team has finished second in three of the last four years, and would like to shake the Avis complex. However, it will take a good performance from the Techers and some bad luck for Boston State for them to pull in first. As it is, they will have to work hard to keep their second place spot from Yale. Individually the prospects are also bright. Dave Beck '71, who took second on floor exercise last year, is a good bet for first. Larry Bell '74 in all around is another first place prospect. Looking through the other events, it seems that MIT could place one or two men in the finals on almost every piece.

One other aspect of the meet may be interesting to some of the MIT computer hacks, and will do nothing to change MIT's image to the outside world. This will be the first major gymnastics meet to use all computerized scoring. There will be a terminal on the gym floor connected by telephone to a PDP-10 (not Multics; it crashes too often) in Braintree, graciously donated free of charge by Interactive Sciences Corporation. All scores will be typed in as the judges flash them. The computer will then be able to provide averages, placings, all around and team scores as fast as they are needed on the floor.

All this takes place tomorrow, March 4, prelims at 11 am, finals at 7:30 pm.

SPORTS

O'Brien named new varsity b-ball coach

By Brad Billetteaux

"His first season will be a winner," Professor Ross Smith, MIT Director of Athletics, predicted at the press conference called Wednesday to name Fran O'Brien as the new varsity basketball coach. O'Brien, who has held the post of assistant coach since 1969, succeeds Jack Barry, Engineer cage coach for the last thirteen years.

Smith's prediction was half jovial and half hopeful, as O'Brien will obviously have his work cut out for him to produce a winning record in basketball next year. "Roughly 3500 points will be graduating," Barry said to his successor, who no doubt is aware that the meat and potatoes of the MIT cage five this past season will be donning cap and gown come June. Both co-captains Harold Brown and Bill Godfrey as well as guard Minot Cleveland are class of 1972. Brown became the top scorer in MIT history and Cleveland placed fifth in the same rankings this year, while Godfrey was a leading rebounder and stalwart of the front court. Despite this depth and talent, the team had to sparkle at the end of the season to compile a 13-10 winning record. The primary reason for this was the lack of a strong bench to spell the starters.

It is that weak bench plus two returning lettermen that O'Brien will have to use to produce his winner. "Jerry Hudson's a helluva man to build a ball club around," remarked O'Brien about the nucleus of his

front court for the '72-'73 season. Hudson developed into the team's best rebounder this year, as well as the number two scorer, pushing or exceeding Brown in many games. But Hudson can't do everything himself, so "rebounding will be the big problem next year."

"Ray White is an excellent defensive ballplayer. He has great potential," O'Brien said of his one returning back court starter. He went on to explain that the lack of experience up front will force the Engineers to play the fast break and percentage basketball, running and shooting.

O'Brien has been with the Institute since 1969 as varsity baseball coach as well as assistant basketball coach. His diamond squads have a combined 24-32 record. In addition, O'Brien is Associate Professor of Physical Education and supervisor of the recreational program for MIT's summertime Project Interphase.

When asked how he felt about athletics in general at MIT, O'Brien said that he felt himself part of the academic community. He is not in favor of athletic recruiting or athletic scholarships for the Institute, and he says that the lack of them has produced the closest approach to the pure "high school" sports attitude, where the term high school is certainly not derogatory. Pure enthusiasm and desire puts men on the playing fields at MIT, not the fact that they are being paid to play.



Fran O'Brien (pictured above, center) was named the new varsity basketball coach by Ross Smith, MIT's Director of Athletics (right). O'Brien, formerly the assistant coach, succeeds thirteen-year veteran coach Jack Barry (left). O'Brien is also the varsity baseball coach.

Photo by Brad Billetteaux

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Friday March 3, 1972

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